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DMC-FS45
Digital Camera

- Bright F2.5 LEICA DC VARIO-SUMMARIT Lens from 24mm Ultra Wide-angle
- HD Video Recording in MP4 Format
- MEGA O.I.S. (Optical Image Stabilizer) for Suppressing Hand-shake Blur
- iA (Intelligent Auto) Mode for One-press Beauty
- Miniature Effect, Panorama Shot and Beauty Retouch
- High-speed Response Featuring Sonic Speed AF

Compact Digital Camera FS45 - Bright F2.5 LEICA DC Lens with 24mm Ultra Wide-angle and 16.1-megapixel CCD

Metrics

Dimensions (W x H x D)	96.0 x 57.1 x 19.4 mm (3.78 x 2.25 x 0.77 inch)
Weight	Approx. 106g without Battery and SD Memory Card (0.24 lb) Approx. 123g with Battery and SD Memory Card (0.28 lb)

Optics

Camera Effective Pixels	16.1 Megapixels
Sensor Size / Total Pixels / Filter	1/2.33-type CCD sensor / 16.6 Total Megapixels / Primary Color Filter
Aperture	F2.5 - F6.4 / 2-Step (F2.5 / 9.0 (W), F6.4 / 20.0 (T))
Optical Zoom	5.0x
Focal Length	f=4.3-21.5mm (24-120mm in 35mm equiv.) (26-130mm in 35mm equiv. in video recording)
Extra Optical Zoom (EZ)	6.3x (4:3 / 10M), 9.0x (4:3 / 5M), 11.3x(4:3 / under 3M)
Intelligent Zoom	10.0x
Lens	LEICA DC VARIO-SUMMARIT 6 elements in 5 groups (3 Aspherical Lenses / 5 Aspherical surfaces)
Optical Image Stabilizer	MEGA O.I.S. (Off / On)
Digital Zoom	4x
Focusing Area	Normal: Wide 50 cm - infinity / Tele 100 cm - infinity Macro / Intelligent AUTO/ motion picture: Wide 5 cm - infinity / Tele 100cm - infinity

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AF Assist Lamp	Yes
Focus	Normal, AF Macro, Zoom Macro Quick AFON/OFF (Always On), Continuous AF(only for motion picture) AF Tracking
AF Metering	Face / AF Tracking / Multi (23pt) / 1pt
Shutter Speed	approx. 8 - 1/1600 sec

Recording

File Format	Still Image: JPEG(DCF/Exif2.3) Motion picture: MP4
Mode Dial / Mode Button	Intelligent Auto, Normal Picture, SCN, Miniature
Still Image Scene Mode	Portrait, Soft Skin, Scenery, Panorama, Sports, Night Portrait, Night Scenery, Food, Baby1, Baby2, Pet, Sunset, High Sensitivity, Glass Through, Photo Frame
Continuous Shooting Mode	Full-Resolution Image, 1.3 frames/sec Max. 100 images High-speed Burst Mode: approx. 10 frames/sec (recorded in 5M / 3M for 4:3, 2.5M for 3:2, 2M for 16:9, 2.5M for 1:1) Max. 15-100 images
Motion Picture Recording (*2)	[HD Video] 1280 x 720 pixels, 25 fps (HD: 10Mbps / MP4) (Sensor output is 25P) [STD Video] VGA: 640 x 480 pixels, 25 fps (4Mbps / MP4)
MP4 (Continuous recordable time [motion pictures])	approx.90 min
MP4 (Actual recordable time [motion pictures])	approx.45 min
Exposure	Auto(Program AE)
Exposure Compensation	1/3 EV step, +/-2 EV
Light Metering	Intelligent Multiple
ISO Sensitivity	I.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity mode (ISO 1600-6400)
Still Picture Recording	[1:1] 3456x3456(12M) [4:3] 4608x3456(16M) / 3648x2736(10M EZ) / 2560x1920(5M EZ) / 2048x1536(3M EZ) / 640x480(0.3M EZ) [3:2] 4608x3072 (14M) [16:9] 4608x2592 (12M)
White Balance	Auto / Daylight / Cloudy / Shade / Incandescent / White Set
Color Mode / Color Effect / My color	Color Mode : Standard, Black&White, Sepia, Vivid(in normal / video), Happy (only in iA Mode)
Digital Red Eye Correction (Red-Eye Removal)	Yes
Optical Zoom in Motion Picture	Yes(digital)
Self Timer	2sec / 10sec

Playback

Playback Mode	Normal Playback, Slideshow, Filtering Playback(Category Playback / Favorites Playback), Calendar Playback
Thumbnails / Zoomed Playback	12,30-thumbnails / Max 16x
	Yes / No

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Calendar Display / Dual-Image Playback	
Set Favorites / Rotate Image	Yes / No
DPOF Print Setting / Set Protection	Yes / Yes
Resize / Cropping / Aspect Conv. / Leveling	Yes / Yes / No / No
Copy / Title Edit / Text Stamp	Yes / No / Yes
Video Divide	Yes
PictBridge Support	Single / Multi / All / Favorites / DPOF

Setup

OSD language	Japanese, English, German, French, Italian, Spanish

Others

LCD Monitor	7.5cm(3.0") TFT Screen LCD Display (230K dots) Field of View : approx. 100% AUTO Power LCD mode, Power LCD mode, High Angle Mode
Built-in-Flash	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off, 0.4 - 5.6m (Wide/i ISO), 1.0 - 2.1m (Tele/i ISO)
Recording Media	Built-in Memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card
Built-in-Memory	Approx.70MB
Microphone / Speaker	Mono / Mono
Interface	AV Output (NTSC/PAL), USB2.0 High speed
Power	Li-ion Battery Pack (3.6V, Minimum: 680mAh) (Included) AC Adaptor (Input: 110-240V AC)(Included, connect with USB cable)
Battery life (approx.)	260 pictures (CIPA Standard)*1
Included Software	PHOTOfunSTUDIO 8.0 Standard Edition Adobe Reader
Standard Accessories	Battery Pack, AC Adapter, USB Cable, Hand Strap, CD-ROM
NOTE	*1 Recording conditions by CIPA standard - CIPA is an abbreviation of [Camera & Imaging Products Association]. - Temperature: 23 oC (73.4 oF)/Humidity: 50%RH when LCD monitor is on. - Using a Panasonic SD Memory Card (32 MB). - Using the supplied battery. - Starting recording 30 seconds after the camera is turned on. (When the optical image stabilizer function is set to [ON].) - Recording once every 30 seconds with full flash every second recording. - Rotating the zoom lever from Tele to Wide or vice versa in every recording. - Turning the camera off every 10 recordings and leaving it until the temperature of the battery decreases. - The number of recordable pictures decreases in Auto Power LCD Mode and Power LCD Mode. *2

- These are standard times taken at a temperature of 23 oC (73.4 oF) and a humidity of 50%RH.

- The time available for recording varies depending on the environment, the interval between recordings, and the manner of use.

- Actual recordable time is the time available for recording when repeating actions such as switching the power supply [ON] / [OFF], starting/ stopping recording, zoom operation etc.

*3

- Motion picture in [MP4] can be recorded continuously for up to 29 minutes 59 seconds.

- Also, motion picture recorded continuously in [MP4] is up to 4 GB.